

CLEAN VERSION OF SUBSTITUTE CLAIMS

1. (Original) A water treatment apparatus comprising:
an electrostatic generator for generating static electricity;
a hollow thermal insulator into which the electrostatic generator
is inserted, for isolating internal and external heat transmission;
closures for preventing water from being introduced into the
hollow thermal insulator;
a housing into which the hollow thermal insulator and the
closures are inserted;
housing connectors each connected at one end to the housing
and connected at the other end to a tubular object; and
a metal casing for housing the housing and the housing
connectors therein, and having a casing body and sealing caps,
wherein at least one of the casing body and the sealing caps
constituting the sheath metal casing has at least one drain hole
formed thereon for naturally discharging condensed water.

2. (Original) The water treatment apparatus as set forth in
claim 1, wherein the electrostatic generator includes a pipe which has
a thread formed on an outer circumferential surface thereof and to
which a first carbon cylindrical body, a zinc tube and a second carbon
cylindrical body are coupled in order thereof, one side of the respective
carbon cylindrical body having a comb structure formed with a
plurality of water through holes and being provided with a male
thread on an outer circumferential surface thereof to be engaged with
each of the closures, the other side of the respective carbon cylindrical
body having an extension and being provided with a female thread on
an inner circumferential surface thereof to be engaged with the pipe;

one side of the respective closure is provided with a female thread on an inner circumferential surface thereof to be engaged with any one of the carbon cylindrical bodies, and the other side of the respective closure is formed with a slant surface;

the hollow thermal insulator is provided with fine naps on the surface thereof and allows the electrostatic generator and the closures to be inserted therein; and

each of the housing connectors includes an extension at one side thereof and a fastener at the other side thereof, the extension and the fastener being integrally formed, the extension being provided with a female thread on an inner circumferential surface thereof so as to be engaged with the housing, the fastener being provided with a male thread on an outer circumferential surface thereof so as to be engaged with the tubular object.

3. (Currently Amended) The water treatment apparatus as set forth in claim 1 [~~or 2~~], wherein the drain hole is coupled to a drain trap having a coupling element and a drain tube.

4. (New) The water treatment apparatus as set forth in claim 2, wherein the drain hole is coupled to a drain trap having a coupling element and a drain tube.